**STAT** 

April 13,1956

#### K-20 Aerial Cameras

# Comera Serial #GE-55-152 - Comera #1

First flight. Single engine L-21
Altimeter. Lighting poor - definition poor
Thermometer lighting poor - definition peor
Watch - lighting poor - definition poor
Mechanical operation of camera first flight - good, but when
loading the camera with film for second flight, the film would
not advance by operating the film advance handle.

# Cemera Serial # GE-55-151, Cemera #2

Second flight. L-21 Bi-motored engine airplane
Altimeter. Hit and miss - over and under exposed
Thermometer. Hit and miss - over and under exposed
Watch. Improper angle. Hit and miss - over and under exposed
Lens. Definition good
Mechanical operation of camera - picture taking - good.
Weather good. Sky blue, clear.

First flight. Helicopter single engine
Altimeter. Over developed image.
Thermometer. Over developed image
Watch. Improper angle - off center, and over-developed image.
Mechanical operation of camera - picture taking - good.
Lens. Good Definition
Weather. Good. Sky blue, clear.

# Cemera Serial #USH 43-4540, Cemera #3

On the first flight in an L-21 single engine aircraft over-Washington and Maryland, the picture taking portion of the film was functioning satisfactorily.

The instruments were recorded on the side of the film in the following manner:

Altimeter - Exposure good, definition good Thermometer - Exposure good, definition good Watch - Exposure under, definition fair Horison - Exposure failed, definition none Lens, 6-3/8" - exposure good, definition good Mechanical operation of camera, good Light conditions, good. Sky blue, clear

Second flight. Bi-motor airplane Report same as first (lst) flight.

# Comera Serial #USH 42-2217, Camera #4

First flight - L-21, single engine sirplane
Altimeter. Even lighting, definition good.
Thermometer. Uneven lighting, definition good, can be read
Watch. Uneven lighting, can be read. Definition good.
Horizon - was missing 19 times out of 50
Lens, 6-3/8" - definition good, clear
Mechanical operation - Format was incomplete 19 times out of 50
Lighting conditions. Good, sky clear, blue

Second flight. Bi-motor airplane
Altimeter. Lighting even, definition good
Thermometer. Lighting uneven, can be read
Watch. Lighting uneven, can be read
Horizon. Operated 30 times out of 50. Definition good
Lens, 6-3/8"
Mechanical operation of camera. Ho exposures were recorded on the
picture format after 30 exposures were made, although film was run
through for 50 exposures.
Light conditions good, sky blue, clear

### CONCLUBIOES:

The cameras are not to be considered absolutely reliable, and need further adjustment and testing by Photomechanisms, Inc. Photomechanisms should submit at least one full roll of developed film from each camera showing instrument and picture recordings before payment.

### RECOMMENDATIONS:

Return the four cameras to Photomechanisms for final adjustment.